Datasheet

RC1201-2E1/FE-BL TDM over IP access gateway

The RC1201-2E1/FE-BL device is TDM over IP access gateway that connects TDM networks across Packet-switched networks such as Ethernet, IP and MPLS networks. It adopts TDMoIP, CESoPSN, SAToP and HDLCoPSN TDM over Ethernet payload mechanisms to carry TDM traffic transparently over PSN. By deploying in pairs or oppositely with other Raisecom RC1201 TDM over IP devices, RC1201-2E1/FE-BL provides PSN extension for any user with standard E1 or serial data interface.

RC1201 devices enable wire-speed bridging between traditional TDM networks and Packet-switched networks. Users' LAN traffic can be rate-limited, tagged, stacked and filtered for better engineering the network and allowing a granular bandwidth capacity offering. To give higher priority to delay-sensitive and secure applications, RC1201 also supports QoS mechanism, which enables IEEE802.1p&Q, ToS/Diffserv and EXP bits for priority marking of the TDM over IP traffic in Ethernet, IP and MPLS networks.

RC1201-2E1/FE-BL
TDM over IP access gateway

Feature

Functionality	Transmits TDM-based services over Ethernet, IP or MPLS packet-switched networks
Operation mode	• Unframed E1 over UDP over IP over Ethernet • Fractional E1 over UDP over IP over Ethernet • Fractional E1 with CAS over UDP over IP over Ethernet
TDM User port	2*E1 2*E1 or 1*serial port
Serial port	V.35, RS-530/RS-422,V.24/RS-232, V.36/RS 449 and X.21
Fast Ethernet port	Three Fast Ethernet ports including one fiber port (SFP-based) and two copper ports can be configured as one uplink and two downlinks flexibly
E1 mode	Framed and unframed E1 mode
Loopback test	External loopback test is available to test the connection between the E1 port and the PBX; Internal loopback test is available to test the connection between the E1 port and the IP network
BER Test	Internal and External BER test can be activated on E1 port for flexible link diagnostics
Virtual channel channel test	Virtual Cable Test (VCT) can be set to diagnose the attached cable plant
Ethernet payload	TDMoIP, CESoPSN, SAToP and HDLCoPSN
VLAN	VLAN tagging, stacking and filtering
Rate limiting	Ingress and egress limiting on both user port and network port
QoS	IEEE802.1p&Q, ToS/Diffserv and EXP bits for priority marking of the TDM over IP traffic in Ethernet, IP and MPLS networks
Queuing	Four priority queues based on IP Precedence, 802.1P and DSCP
Signaling	Transparent to all signaling protocols
Clock mode	Selectable internal clock, E1/T1 recovered clock, PSN adaptive clock and external clock
Jitter	Configurable jitter buffers compensates for delay variation introduction by the Ethernet network
Statistics	E1, Ethernet and jitter buffer statistics
Compliance	Support MPLS, MEF8 and UDP/IP protocols
Management	Local terminal, remote Telnet, web-based management and SNMP

Specification

Electrical fast Ethernet port	2* 10/100BaseT Connector: RJ-45 MDI/MDIX auto crossover IEEE802.3x flow control
Optical fast Ethernet port	1*100M FX Connector: LC IEEE802.3x flow control
E1 port	2*E1 Connector: RJ-45 or BNC Impedance: 120 or 75 ohm Line coding: HDB3
CONSOLE Port	DB9
Indicator	PWR, TST, ALM, LOC/REM and LINK/ACT
Dimension	430(W)*266(D)*444.5(H)mm
Weight	0.5kg
Power supply	AC: 100~240V DC: - 48~-60V
Power consumption	≤ 8W (at max load)
Working ambience	Temp: -5~50 centigrade RH: ≤90% non-condensing
Storage ambience	Temp: -25~85 centigrade RH: 20~90% non-condensing
Safety compliance	CE certification

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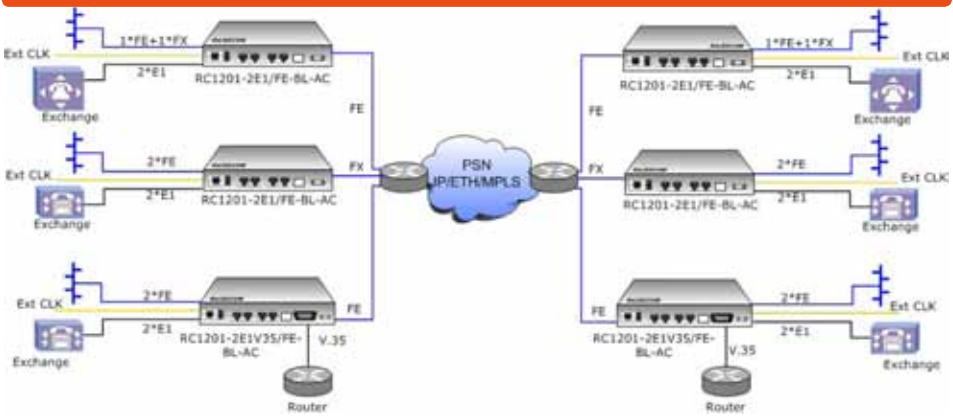
Application



Compliance

Standards & protocols	IEEE802.3 Ethernet IEEE802.3x full duplex on 10BaseT, 100BaseTX ports IEEE802.3u 100BaseTX ITU-T G.703 ITU-T G.704 ITU-T G.823 ITU-T Y.1413 RFC 5086 RFC 4553

Ordering Information

Part Number	Description
RC1201-2E1/FE-BL	TDM over IP access gateway with two 120ohm balanced E1 ports and two Fast Ethernet ports for downlink and one Fast Ethernet for uplink
RC1201-2E1V35/FE-BL	TDM over IP access gateway with two 120ohm balanced E1 ports, one V.35 port and two Fast Ethernet ports for downlink and one Fast Ethernet for uplink
* Serial port such as RS-530/RS-422,V.24/RS-232, V.36/RS 449 and X.21 is customized	

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